

MATERIAL SAFETY DATA SHEET

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MSDS Number: 100507
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Section A - Product Identification

Product Name: Coloring Agent - Dark Blue

Product Number (s): 507

Section B - Hazardous Ingredients

<u>INGREDIENT</u>	<u>CAS NUMBER</u>	<u>WEIGHT PERCENT</u>	<u>OSHA PEL/TWA</u>	<u>ACGIH TLV</u>	<u>VAPOR PRESSURE</u>
Titanium Dioxide	13463-67-7	14.6	10 mg/m3*	10 mg/m3	N/A
Diacetone Alcohol	123-42-2	30.5	50 ppm	50 ppm	0.8 mmHg
Phthalo Blue	147-14-8	15.5	N/E	N/E	N/E

- PEL is for total dust; Respirable fraction is 5mg/m3
N/E - Not Established. N/A - Not Applicable.

Section C - Physical Data

Vapor Pressure: See Section B
Boiling Point: 337°F
Evaporation Rate: Slower than ethyl ether

Vapor Density: Heavier than air
Percent Volatile By Volume: 40 %
Weight Per Gallon: 10.3 lbs/gal

Section D - Fire and Explosion Data

OSHA Flammability Class: Combustible Liquid Class III A
Extinguishing Media: Foam, carbon dioxide, and dry chemical.

Lower Explosion Limit: 1.8 to 6.9 %
Flash Point: 146 °F

Hazardous Decomposition Products: Fumes may be produced when material is heated to decomposition. Fumes may contain carbon monoxide, carbon dioxide, and various hydrocarbons.

Special Fire fighting Procedures: Use full protective equipment including NIOSH-approved self-contained breathing apparatus. Water may be used to cool containers to prevent pressure build-up which may rupture containers.

Unusual Fire and Explosion Hazards: Handle as a combustible liquid.

Section E - Reactivity Data

Stability: Stable.
Incompatible Materials: Strong acids, alkali, and oxidizing agents.

Hazardous Polymerization: Not likely.
Conditions To Avoid: High temperatures, ignition sources, and contact with incompatible materials.

Section F- Spill and Leak Procedures

If Material Is Spilled: Remove all sources of ignition. Ventilate the area. Wear protective equipment (See Section H). Avoid breathing vapors. Contain spill. Collect with inert absorbent and remove. Dispose of properly.

Waste Disposal Procedures: Dispose of in accordance with federal, state, and local regulations. Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Before attempting clean-up or disposing of material, refer to hazard information in other sections of this sheet.

Section G - Health Hazard Data

Chronic Effects Of Overexposure:

Breathing vapors from this material is irritating to eyes, nose, and throat. Contact with material in the eyes or skin can cause dryness and irritation. Overexposure to diacetone alcohol has been suggested as a cause to the following effects in laboratory animals, and may aggravate pre-existing disorders of these organs in humans: Anemia, liver abnormalities, kidney damage.

Acute Effects Of Overexposure:

- EYES: Contact with vapor may result in irritation, redness, tearing, and blurred vision.
- SKIN: Contact with material may result in irritation of the skin.
- INHALATION: Excessive inhalation of vapors may cause nasal and respiratory irritation.
- SWALLOWING: Ingestion of this material may cause gastrointestinal irritation, nausea, diarrhea, and vomiting.

First Aid Procedures:

- IF IN EYES: Flush immediately with large amounts of water for at least fifteen minutes. See physician for medical treatment.
- IF ON SKIN: Immediately wash affected area with soap and water. Remove contaminated clothing. Consult a physician if irritation develops.
- IF INHALED: Remove person to fresh air. Restore breathing. Keep person warm and quiet. Treat symptomatically. Get medical attention.
- IF SWALLOWED: Keep person warm and quiet. Consult a physician or poison control center immediately.

Section H - Special Protection Information

Eye Protection: Splash goggles should be worn.

Skin Protection: Protective gloves and proper clothing should be worn to prevent skin contact. Gloves should be made of neoprene or natural rubber. Barrier cream may be worn for additional skin protection.

Respiratory Protection: Use NIOSH-approved respirators designed to remove particulate matter and organic solvent vapors.

Ventilation: General dilution or local exhaust ventilation should be provided to keep exposures below acceptable limits (Section B) and to keep solvent vapors below the lower explosion limit.

Other Protective Equipment: Impermeable clothing should be worn to prevent prolonged or repeated contact of wet material with the skin

Hygienic Practices: Always wash hands after using this material, and before eating, drinking, or smoking.

Section I - Special Precautions

Precautions To Be Taken In Handling And Storage: Store material in a cool, well-ventilated area. Do not store at temperatures above 75 °F. Do not use or store near heat, sparks, or open flame. Keep containers tightly closed. Avoid contact with incompatible materials.

Other Precautions: If product is to be sanded, the PEL/TLV of 10 mg/m3 for nuisance dusts should be observed. Keep out of reach of children. Do not take internally. Avoid contact with eyes and skin.

Section J - Other Information

This product does not contain materials considered to be carcinogenic by IARC, NTP or OSHA.

THE INFORMATION ACCUMULATED HEREIN HAS BEEN COMPILED FROM CURRENT SOURCES WHICH ARE BELIEVED TO BE ACCURATE AND RELIABLE. SINCE IT IS NOT POSSIBLE TO ANTICIPATE ALL CIRCUMSTANCES OF USE, RECIPIENTS ARE ADVISED TO CONFIRM, IN ADVANCE OF NEED, THAT THE INFORMATION IS CURRENT, APPLICABLE AND SUITABLE TO THEIR CIRCUMSTANCES.